

1 **A.** ORS represents the public interest as defined by the South Carolina General
2 Assembly as:

3 [T]he concerns of the using and consuming public with respect to
4 public utility services, regardless of the class of customer, and
5 preservation of continued investment in and maintenance of utility
6 facilities so as to provide reliable and high-quality utility services.

7 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

8 **A.** The purpose of my testimony is to present the results of ORS’s examination of the
9 books and records pertaining to Duke Energy Carolinas, LLC’s (“DEC” or “Company”) operations under the Fuel Adjustment Clause (“FAC”). The current fuel examination
10 covered the period of June 2018 through May 2019 (“Actual Period”). For Commission
11 consideration, my testimony and exhibits also include the estimated, unaudited four (4)
12 months from June 2019 through September 2019 (“Estimated Period”).

14 **Q. WHAT WAS THE PURPOSE OF ORS’S EXAMINATION?**

15 **A.** The purpose of ORS’s examination was to determine if the Company’s accounting
16 practices in computing and applying the monthly FAC complied with South Carolina
17 (“S.C.”) Code Ann. §§ 58-27-865, 58-39-130, 58-39-140, 58-40-20, and prior Commission
18 orders.

19 **Q. WAS THE REVIEW PERFORMED BY YOU OR UNDER YOUR SUPERVISION?**

20 **A.** Yes, the review to which I testify was performed by me or under my supervision.

21 **Q. WHAT WAS THE SCOPE OF ORS’S EXAMINATION?**

22 **A.** ORS examined and verified the monthly calculations and the (over)/under-recovery
23 balances recorded in the Company’s books and records for base fuel costs, environmental
24 costs, capacity costs, Distributed Energy Resource Program (“DERP”) incremental costs,
25 and DERP avoided costs for the Actual Period. ORS verified these monthly calculations

1 and (over)/under-recovery balances to the Company's Monthly Fuel Reports and the
2 Company's testimony and exhibits filed in this docket. ORS's examination consisted of
3 the following:

4 1. Analyzing the Fuel Stock Accounts

5 ORS's analysis of the fuel stock accounts consisted of verifying receipts to and
6 issuances from the fuel management system to the general ledger, examining monthly
7 fuel charges originating in the fuel stock accounts, and ensuring that only proper
8 charges were entered in the Company's computation of fuel costs for purposes of
9 adjusting the base fuel factor.

10 2. Sampling Receipts to the Fuel Stock Accounts

11 ORS's review of receipts to the fuel stock accounts consisted of examining and testing
12 transactions in coal and natural gas that support additions to the accounts during the
13 Actual Period. Each coal transaction sampled was examined and tested for
14 mathematical accuracy and vouched to a commodity received report, corresponding
15 waybill or truck bill, supplier invoice, base cost report, freight invoice, and
16 transportation cost report. Coal transactions were then verified to fuel management
17 system payment vouchers to verify payments of the correct amounts to the vendors.
18 ORS sampled natural gas transactions and examined them for mathematical accuracy
19 and verified them to third party invoices and bank statements to verify payments of the
20 correct amounts to the vendors.

21 3. Verifying Coal, Oil, and Natural Gas Expenses

22 ORS verified the amounts of coal, oil and natural gas consumed for electric generation
23 for each month of the Actual Period by reviewing inventory control reports, general

1 ledger accounts, and calculation worksheets. Biogas was included in the cost of natural
2 gas expenses reviewed by ORS. ORS verified biogas calculations for each month in
3 the Actual Period by using the kilowatt-hours (“kWh”) attributable to biogas at the
4 generation facility multiplied by the Commission-approved Avoided Fuel-Only rate
5 from Docket No. 1995-1192-E.

6 4. Verifying Charges to Nuclear Fuel Expenses

7 ORS verified the amounts of nuclear fuel expenses to the Company’s books and records
8 for the Actual Period. In addition, these amounts were verified to the Company’s
9 nuclear fuel burned amortization schedules. ORS recalculated the Company’s nuclear
10 fuel burned amortization schedules to verify mathematical accuracy.

11 5. Verifying Purchased Power and Power Sales

12 ORS verified the Company’s purchased and interchange power fuel cost, megawatt-
13 hour (“MWh”) purchases, and MWh sales for the Actual Period to the Company’s
14 “Intersystem Purchase and Sales Transaction” reports and monthly invoices, on a
15 sample basis. The purchases sampled were also verified to proof of payment
16 information to ensure payments to vendors were accurate and agreed to the invoices
17 received by the Company. This verification included reviewing intercompany power
18 transactions related to the Joint Dispatch Agreement (“JDA”) between the Company
19 and Duke Energy Progress, LLC (“DEP”).

20 ORS recomputed the Company’s sales and purchases for the Actual Period. The
21 purchased and interchange power amounts for the Actual Period and the resultant
22 (over)/under-recovery monthly deferred fuel amounts for the Actual Period reflect
23 calculations that conform to S.C. Code Ann. § 58-27-865. Subsection (A)(2)(b) of this

1 statute states that the total delivered cost of economy purchases, including, but not
2 limited to, transmission charges, are included in purchased power costs if those
3 purchases are “less than the purchasing utility’s avoided variable costs for the
4 generation of an equivalent quantity of electric power.” As such, ORS verified that the
5 economic purchases were recorded at, or less than, the Company’s applicable avoided
6 costs.

7 ORS sampled and tested power sales transactions for mathematical accuracy and
8 verified these transactions to the invoices issued by the Company to third parties. ORS
9 sampled various hours of the power sales transactions to verify the accuracy of the
10 generation cost being assigned to the sale within the sampled hour by the Company.

11 6. Verifying kWh Sales

12 ORS verified total system kWh sales to the Company’s Operating Revenue Reports for
13 the Actual Period. ORS recalculated and verified the Net Energy Metering (“NEM”)
14 solar kWh generation reported on the NEM cost reports. Total system kWh sales, S.C.
15 retail kWh sales, and NEM solar kWh generation were used in the computations of the
16 (over)/under-recovery of base fuel costs, environmental costs, capacity costs, and
17 DERP avoided costs.

18 7. Recalculating the Fuel Adjustment Factors and Verifying the (Over)/Under-Recovery
19 of Base Fuel Costs

20 ORS recalculated the fuel costs for the Actual Period utilizing information obtained
21 from the Company’s books and records and verified the recalculated costs to the
22 Company’s Monthly Fuel Reports. In recalculating the monthly fuel costs, ORS
23 divided adjusted system fuel costs by adjusted system kWh sales to arrive at fuel costs

1 per kWh sold. The fuel costs per kWh sold were then multiplied by the adjusted S.C.
2 retail kWh sales to determine the S.C. retail base fuel costs. The S.C. retail base fuel
3 costs billed to S.C. retail customers were compared to the S.C. retail base fuel costs to
4 compute the deferred fuel entry - (over)/under-recovery for each month of the Actual
5 Period. The (over)/under-recovery for each month in the Actual Period was verified to
6 the Company's Monthly Fuel Reports. ORS also recalculated the Company's
7 calculations for the Estimated Period to ensure accuracy.

8 8. Recalculating the Environmental Costs and Verifying the (Over)/Under-Recovery of
9 Environmental Costs

10 Per S.C. Code Ann. § 58-27-865(A)(1),

11 'fuel cost' also shall include the following variable environmental costs: (a) the
12 cost of ammonia, lime, limestone, urea, dibasic acid and catalysts consumed in
13 reducing or treating emissions, and (b) the cost of emission allowances, as used,
14 including allowance for SO₂, NO_x, mercury, and particulates.

15
16 S.C. Code Ann. § 58-27-865(A)(1) also states that, "[a]ll variable environmental costs
17 included in fuel costs shall be recovered from each class of customers as a separate
18 environmental component of the overall fuel factor."

19 ORS verified the reagent expenses, emission allowances expensed, emission
20 allowances sold, and environmental costs recovered through power sales for the Actual
21 Period. The primary reagent expenses reviewed for the purpose of this examination
22 include lime/limestone, magnesium hydroxide, calcium carbonate, ammonia, urea,
23 activated carbon and Mercontrol 8034 Plus. ORS sampled and verified that reagents
24 purchased during the Actual Period agreed to base cost reports, transportation cost
25 reports, and vouchers for payment. These reagents are used to reduce the emissions

1 produced by the Company's power generation facilities during the production of
2 electricity.

3 The emission allowances reviewed for the purposes of this examination include Sulfur
4 Dioxide ("SO₂") and Nitrogen Oxide ("NO_x") emission allowances. ORS recalculated
5 the SO₂ and NO_x emission allowances expensed for the Actual Period as included in
6 the Company's books and records. Emission allowances sold during the Actual Period
7 were agreed to the transaction agreements and ORS ensured any gains/net proceeds
8 were used to offset the environmental costs of this component per S.C. Code Ann. §
9 58-27-865. Subsection (A)(1) of this statute requires that "fuel costs must be reduced
10 by the net proceeds of any sales of emission allowances by the utility."

11 ORS verified the calculations of environmental costs recovered through off-system
12 sales that reduced environmental costs for each month of the Actual Period, to arrive
13 at the net environmental costs. ORS then used the S.C. retail kWh sales divided by the
14 total system kWh sales excluding off-system sales to determine the S.C. allocation
15 factor to apply to the net environmental costs. The environmental costs billed to S.C.
16 retail customers were compared to the S.C. portion of environmental costs to compute
17 the (over)/under-recovery for each month of the Actual Period. The (over)/under-
18 recovery for each month in the Actual Period was verified to the Company's Monthly
19 Fuel Reports. ORS also recalculated the Company's calculations for the Estimated
20 Period to ensure accuracy.

21 9. Recalculating the Capacity Costs and Verifying the (Over)/Under-Recovery of
22 Capacity Costs

1 ORS verified the purchased power capacity costs to the Company's Monthly Fuel
2 Reports for the Public Utility Regulatory Policy Act of 1978 ("PURPA") purchases.
3 This verification included the review of schedules detailing the breakdown of capacity
4 costs and energy costs for power purchases in the Actual Period. Natural gas capacity
5 costs were agreed to the Company's books and records for each month of the Actual
6 Period. Per S.C. Code Ann. § 58-27-865(A)(1),

7 if capacity costs are permitted to be recovered through the fuel factor, such costs
8 shall be allocated and recovered from customers under a separate capacity
9 component of the overall fuel factor based on the same method that is used by
10 the utility to allocate and recover variable environmental costs.

11 ORS then used the S.C. retail kWh sales divided by the total system kWh sales
12 excluding off-system sales to determine the S.C. allocation factor to apply to the
13 capacity costs. The capacity costs billed to S.C. retail customers were compared to the
14 S.C. portion of capacity expenses to compute the (over)/under-recovery for each month
15 of the Actual Period. The (over)/under-recovery for each month in the Actual Period
16 was verified to the Company's Monthly Fuel Reports. ORS also recalculated the
17 Company's calculations for the Estimated Period to ensure accuracy.

18
19 10. Recalculating the DERP Incremental Costs and Verifying the (Over)/Under-Recovery
20 of DERP Incremental Costs

21 Per S.C. Code Ann. § 58-27-865(A)(1),

22 the incremental and avoided costs of distributed energy resource programs and
23 net metering as authorized and approved under Chapters 39 and 40, Title 58
24 shall be allocated and recovered from customers under a separate distributed
25 energy component of the overall fuel factor that shall be allocated and recovered
26 based on the same method that is used by the utility to allocate and recover
27 variable environmental costs.
28

1 ORS verified the DERP incremental costs to the Company's Monthly Fuel Reports for
2 the Actual Period. This included verifying that general ledger transactions were
3 supported by invoices and agreed to proof of payment. ORS recalculated the NEM cost
4 reports provided by the Company for each month of the Actual Period. Additionally,
5 ORS recalculated the NEM solar generation kWh sales and the avoided fuel benefits
6 of S.C. NEM. ORS recalculated the Solar Rebate amortization schedule and the
7 associated carrying costs. ORS also examined the shared solar program and purchase
8 power agreement ("PPA") expenses that occurred within the Actual Period. The DERP
9 incremental costs billed to S.C. retail customers were compared to the DERP
10 incremental costs to compute the (over)/under-recovery for each month of the Actual
11 Period. The (over)/under-recovery for each month in the Actual Period was verified to
12 the Company's Monthly Fuel Reports. ORS also recalculated the Company's
13 calculations for the Estimated Period to ensure accuracy.

14 11. Recalculating the DERP Avoided Costs and Verifying the (Over)/Under-Recovery of
15 DERP Avoided Costs

16 ORS verified the DERP avoided costs for PPAs to the Company's Monthly Fuel
17 Reports for PURPA Purchases. The verification of PPA and shared solar program costs
18 included the review of schedules detailing the calculations for capacity costs and
19 energy costs for the purchases made within the Actual Period. ORS used the S.C. retail
20 kWh sales divided by the total system kWh sales excluding off-system sales to
21 determine the S.C. allocation factor to apply to the DERP avoided costs. The DERP
22 avoided costs billed to S.C. retail customers were compared to the S.C. portion of
23 DERP avoided costs to compute the (over)/under-recovery for each month of the

1 Actual Period. The (over)/under-recovery for each month in the Actual Period was
2 verified to the Company's Monthly Fuel Reports. ORS also recalculated the
3 Company's calculations for the Estimated Period to ensure accuracy.

4 12. Company Adjustments Made in the Actual and Estimated Periods

5 ORS reviewed and recalculated all adjustments made by the Company for the Actual
6 Period. ORS recalculated all adjustments made by the Company for the Estimated
7 Period, and will fully examine those adjustments when they are included in the Actual
8 Period as part of the Company's next FAC review.

9 **Q. PLEASE EXPLAIN THE AUDIT EXHIBITS ATTACHED TO YOUR**
10 **TESTIMONY.**

11 **A.** ORS prepared the following audit exhibits based upon ORS's review of the
12 Company's books and records:

13 **AUDIT EXHIBIT ADB-1: TOTAL FUEL RECEIVED AND WEIGHTED**
14 **AVERAGE FUEL COST**

15 This exhibit details the total cost of \$1,185,761,793 for coal, oil, and natural gas (includes
16 biogas) received for each month during the Actual Period. ORS has also computed the
17 weighted average cost of each type of fuel: coal (\$84.19 per ton), oil (\$2.12 per gallon),
18 and natural gas (\$3.70 per thousand cubic feet ("MCF")).

19 **AUDIT EXHIBIT ADB-2: RECEIVED COAL - COST PER TON COMPARISON**

20 This exhibit details the received cost per ton of coal for each month of the Actual Period
21 for DEC, DEP, and Dominion Energy South Carolina, Inc. ("DESC"). For comparison
22 purposes, ORS has shown the invoice cost per ton, freight cost per ton, total cost per ton,
23 and the cost per thousand British thermal units ("MBTU") for each company. The coal cost

1 comparison information used for DEP and DESC have not been audited as part of this
2 docket.

3 **AUDIT EXHIBIT ADB-3: COST OF FUEL BURNED FOR ELECTRIC**
4 **GENERATION**

5 This exhibit details the per book cost of fuel burned for electric generation for each month
6 of the Actual Period. The cost of burned fuel is broken into four (4) types: coal, oil, natural
7 gas (includes biogas) and nuclear. The burned cost of each type of fuel is shown separately
8 along with its percentage of total burned costs. These costs are used in the computations of
9 base fuel costs.

10 **AUDIT EXHIBIT ADB-4: COST OF FUEL**

11 This exhibit details ORS's computation of the total fuel cost applicable to the base fuel
12 recovery calculation for the Actual Period. There are four (4) components included in this
13 cost and they are as follows:

- 14 (1) Cost of Fuel Burned;
- 15 (2) Fuel Cost of Purchased and Interchange Power;
- 16 (3) Fuel Cost Recovered from Power Sales; and
- 17 (4) Solar Integration Fees

18 Cost of Fuel Burned – This amount is the total cost of all fossil and nuclear fuel burned,
19 detailed by month for the Actual Period, and used in the base fuel costs component
20 computation. A detailed breakdown of coal, oil, natural gas, and nuclear fuel can be seen
21 in Audit Exhibit ADB-3.

1 Fuel Cost of Purchased and Interchange Power – This amount is the total fuel cost of MWhs
2 purchased from other electric utilities or power marketers detailed by month for the Actual
3 Period.

4 Fuel Cost Recovered from Power Sales – This amount is the total fuel cost recovery related
5 to MWhs sold to other electric utilities or power marketers detailed by month for the Actual
6 Period. These costs lower the cost of fuel for each month of the Actual Period.

7 Solar Integration Fees – This amount is the total variable fees paid to the Company from
8 solar generating customers detailed by month for the Actual Period. These fees lower the
9 cost of fuel for each month of the Actual Period.

10 **AUDIT EXHIBIT ADB-5: DETAILS OF THE COMPUTATION OF THE**
11 **(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS**

12 This exhibit details the (over)/under-recovery of base fuel cost computations by month for
13 the Actual and Estimated Periods. This exhibit also shows the computations of the actual
14 and estimated cumulative (over)/under-recovery balances of base fuel costs and various
15 adjustments for June 2018 through September 2019.

16 **AUDIT EXHIBIT ADB-6: TOTAL ENVIROMENTAL COSTS**

17 This exhibit details the total environmental costs for the Actual Period by month for
18 magnesium hydroxide, calcium carbonate and other sorbents, emission allowances
19 (expensed and sold), ammonia and urea, lime/limestone, and MerControl 8034 Plus.
20 Additionally, the percentage of total cost is shown for each environmental component for
21 each month in the Actual Period.

22 **AUDIT EXHIBIT ADB-7: DETAILS OF THE COMPUTATION OF THE**
23 **(OVER)/UNDER-RECOVERY OF ENVIRONMENTAL COSTS**

1 This exhibit details the (over)/under-recovery of environmental cost computations by
2 month for the Actual and Estimated Periods for total environmental costs and off-system
3 sales. This exhibit also shows the computation of the actual and estimated cumulative
4 (over)/under-recovery balances of environmental costs for June 2018 through September
5 2019.

6 **AUDIT EXHIBIT ADB-8: DETAILS OF THE COMPUTATION OF THE**
7 **(OVER)/UNDER-RECOVERY OF CAPACITY COSTS**

8 This exhibit details the (over)/under-recovery of PURPA purchased power avoided
9 capacity costs and natural gas capacity costs by month for the Actual and Estimated
10 Periods. Pursuant to Act 236, which became effective June 2014, the avoided capacity
11 component of PURPA purchased power costs and the natural gas capacity costs, which are
12 permitted to be recovered through the fuel factor, are now allocated and recovered as a
13 separate component of the overall fuel factor in the same manner as environmental costs.
14 This exhibit also shows the computation of the actual and estimated cumulative
15 (over)/under-recovery balances of capacity costs and the adjustment for June 2018 through
16 September 2019.

17 **AUDIT EXHIBIT ADB-9: DETAILS OF THE COMPUTATION OF THE**
18 **(OVER)/UNDER-RECOVERY OF DERP INCREMENTAL COSTS**

19 This exhibit details the (over)/under-recovery of DERP incremental costs by month for the
20 Actual and Estimated Periods. This exhibit also shows the computation of the actual and
21 estimated cumulative (over)/under-recovery balances of DERP incremental costs and
22 adjustments for June 2018 through September 2019. DERP incremental costs are further
23 explained in the testimony of ORS witness Wilhite.

1 **AUDIT EXHIBIT ADB-10: DETAILS OF THE COMPUTATION OF THE**
2 **(OVER)/UNDER-RECOVERY OF DERP AVOIDED COSTS**

3 This exhibit details the (over)/under-recovery of DERP avoided cost computations by
4 month for the Actual and Estimated Periods. This exhibit also shows the computation of
5 the actual and estimated cumulative (over)/under-recovery balances of DERP avoided
6 costs for June 2018 through September 2019. DERP avoided costs are further explained in
7 the testimony of ORS witness Wilhite.

8 **Q. PLEASE EXPLAIN ORS'S COMPUTATION OF THE CUMULATIVE**
9 **(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS IN AUDIT EXHIBIT ADB-**
10 **5.**

11 **A.** Audit Exhibit ADB-5 provides details of ORS's calculation of the actual
12 cumulative under-recovery balance through May 2019 of \$86,217,228, and the estimated
13 cumulative under-recovery balance through September 2019 of \$79,341,242. Company
14 witness McGee's testimony (Revised McGee Exhibit 2, pages 1 through 2) in this docket
15 reports the same cumulative under-recovery balance through May 2019, and an estimated
16 cumulative under-recovery balance through September 2019 of \$78,008,718. The
17 difference between ORS's and the Company's ending balance for September 2019 is
18 attributed to the Company inadvertently reversing the signs for the Fuel Benefits in DERP
19 NEM Incentive for the Estimated Period. Audit Exhibit ADB-5 shows the correct estimated
20 Fuel Benefits in DERP NEM Incentive for the Estimated Period.

21 **Q. DID THE COMPANY MAKE ANY ADJUSTMENTS DURING EITHER THE**
22 **ACTUAL OR ESTIMATED PERIODS FOR BASE FUEL COSTS?**

1 **A.** Yes. The Company made adjustments (A) through (F) as shown on Audit Exhibit
2 ADB-5. ORS has reviewed and agrees with the adjustments made by the Company for base
3 fuel costs, and the justification for each adjustment can be explained in more detail by
4 Company witness McGee.

5 **Q. PLEASE EXPLAIN ORS'S COMPUTATION OF THE CUMULATIVE**
6 **(OVER)/UNDER-RECOVERY OF ENVIRONMENTAL COSTS IN AUDIT**
7 **EXHIBIT ADB-7.**

8 **A.** Audit Exhibit ADB-7 provides details of ORS's calculation of the actual
9 cumulative environmental cost over-recovery balance through May 2019 of \$965,535, and
10 the estimated cumulative under-recovery balance through September 2019 of \$346,746.
11 Company witness McGee's testimony (McGee Exhibit 4, pages 1a through 3b) in this
12 docket reports the same cumulative over-recovery balance through May 2019, and an
13 estimated cumulative under-recovery balance through September 2019 of \$346,747. The
14 difference between ORS's and the Company's ending balance for September 2019 is due
15 to rounding.

16 **Q. PLEASE EXPLAIN ORS'S COMPUTATION OF THE CUMULATIVE**
17 **(OVER)/UNDER-RECOVERY OF CAPACITY COSTS IN AUDIT EXHIBIT ADB-**
18 **8.**

19 **A.** Audit Exhibit ADB-8 provides details of ORS's calculation of the actual
20 cumulative capacity cost over-recovery balance through May 2019 of \$5,379,540, and the
21 estimated cumulative over-recovery balance through September 2019 of \$7,457,040.
22 Company witness McGee's testimony (Revised McGee Exhibit 6, pages 1a through 3b) in
23 this docket reports a cumulative over-recovery balance through May 2019 of \$5,379,538,

1 and the same cumulative over-recovery balance through September 2019. The difference
2 between ORS's and the Company's ending balance for May 2019 is due to rounding.

3 **Q. DID THE COMPANY MAKE ANY ADJUSTMENTS DURING EITHER THE**
4 **ACTUAL OR THE ESTIMATED PERIODS FOR CAPACITY COSTS?**

5 **A.** Yes. The Company made adjustments (G) and (H) as shown on Audit Exhibit ADB-
6 8. ORS has reviewed and agrees with the adjustments made by the Company for capacity
7 costs, and the justification for each adjustment can be explained in more detail by Company
8 witness McGee.

9 **Q. PLEASE EXPLAIN ORS'S COMPUTATION OF THE CUMULATIVE**
10 **(OVER)/UNDER-RECOVERY OF DERP INCREMENTAL COSTS IN AUDIT**
11 **EXHIBIT ADB-9.**

12 **A.** Audit Exhibit ADB-9 provides details of ORS's calculation of the actual
13 cumulative DERP incremental cost over-recovery balance through May 2019 of \$474,258,
14 and the estimated cumulative over-recovery balance through September 2019 of
15 \$1,462,326. Company witness McGee's testimony (Revised McGee Exhibit 8, pages 1
16 through 2) in this docket reports a cumulative over-recovery balance through May 2019 of
17 \$474,257, and the same cumulative over-recovery balance through September 2019. The
18 difference between ORS's and the Company's ending balance for May 2019 is due to
19 rounding.

20 **Q. DID THE COMPANY MAKE ANY ADJUSTMENTS DURING EITHER THE**
21 **ACTUAL OR ESTIMATED PERIODS FOR DERP INCREMENTAL COSTS?**

22 **A.** Yes. The Company made adjustments (I) through (L) as shown on Audit Exhibit
23 ADB-9. ORS has reviewed and agrees with the adjustments made by the Company for

1 DERP incremental costs, and the justification for each adjustment can be explained in more
2 detail by Company witness McGee.

3 **Q. PLEASE EXPLAIN ORS'S COMPUTATION OF THE CUMULATIVE**
4 **(OVER)/UNDER-RECOVERY OF DERP AVOIDED COSTS IN AUDIT EXHIBIT**
5 **ADB-10.**

6 **A.** Audit Exhibit ADB-10 provides details of ORS's calculation of the actual
7 cumulative DERP avoided costs over-recovery balance through May 2019 of \$1,472, and
8 the estimated cumulative over-recovery balance through September 2019 of \$18,582.
9 Company witness McGee's testimony (McGee Exhibit 12, pages 1a through 3b) in this
10 docket reports a cumulative over-recovery balance through May 2019 of \$1,470 and an
11 estimated cumulative over-recovery balance through September 2019 of \$18,581. The
12 differences between ORS's and the Company's ending balances for May 2019 and
13 September 2019 are due to rounding.

14 **Q. WHAT IS THE RESULT OF ORS'S EXAMINATION?**

15 **A.** Based on ORS's examination of the Company's books and records, and the
16 Company's operations under the fuel cost recovery mechanism, it is ORS's opinion, that
17 subject to the Company's Adjustments and ORS's correction, the Company's accounting
18 practices are in compliance with S.C. Code Ann. §§ 58-27-865, 58-39-130, 58-39-140, 58-
19 40-20, and prior Commission orders.

20 Based on ORS's examination, ORS agrees with the following cumulative (over)/under-
21 recovery balances as calculated in Company witness McGee's Exhibits in this docket:

- 22 • May 2019 base fuel costs under-recovery balance of \$86,217,228;
- 23 • May 2019 environmental costs over-recovery balance of \$965,535;

- 1 • May 2019 capacity costs over-recovery balance of \$5,379,538;
- 2 • May 2019 DERP incremental costs over-recovery balance of \$474,257;
- 3 • May 2019 DERP avoided costs over-recovery balance of \$1,470;
- 4 • September 2019 environmental costs under-recovery balance of \$346,747;
- 5 • September 2019 capacity costs over-recovery balance of \$7,457,040;
- 6 • September 2019 DERP incremental costs over-recovery of \$1,462,326; and
- 7 • September 2019 DERP avoided costs over-recovery balance of \$18,581.

8 Based on ORS's examination, ORS calculated the following adjusted cumulative under-
9 recovery balance for DEC:

- 10 • September 2019 base fuel costs under-recovery balance of \$79,341,242.

11 **Q. WILL YOU UPDATE YOUR TESTIMONY BASED ON INFORMATION THAT**
12 **BECOMES AVAILABLE?**

13 **A.** Yes. ORS fully reserves the right to revise its recommendations via supplemental
14 testimony should new information not previously provided by the Company, or other
15 sources, becomes available.

16 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

17 **A.** Yes, it does.

**Office of Regulatory Staff
Received Coal - Cost Per Ton Comparison
Duke Energy Carolinas, LLC
For Year Ending May 2019
Docket No. 2019-3-E**

Month	Duke Energy Carolinas, LLC				Duke Energy Progress, LLC ¹				Dominion Energy South Carolina, Inc. ¹			
	Invoice Cost Per Ton \$	Freight Cost Per Ton \$	Total Cost Per Ton \$	Cost Per MBTU \$	Invoice Cost Per Ton \$	Freight Cost Per Ton \$	Total Cost Per Ton \$	Cost Per MBTU \$	Invoice Cost Per Ton \$	Freight Cost Per Ton \$	Total Cost Per Ton \$	Cost Per MBTU \$
Jun-18	48.67	27.12	75.79	3.05	46.51	27.71	74.22	2.93	56.98	26.66	83.64	3.27
Jul-18	48.33	30.44	78.77	3.20	49.19	35.62	84.81	3.39	57.00	23.33	80.33	3.17
Aug-18	50.07	30.96	81.03	3.27	47.29	36.22	83.51	3.31	56.50	23.67	80.17	3.18
Sep-18	50.02	31.06	81.08	3.25	51.35	39.09	90.44	3.62	59.02	24.96	83.98	3.32
Oct-18	49.71	28.08	77.79	3.12	49.74	34.30	84.04	3.32	57.78	23.98	81.76	3.25
Nov-18	49.55	28.64	78.19	3.10	53.31	49.16	102.47	4.07	61.79	24.21	86.00	3.45
Dec-18	84.65	67.59	152.24	6.09	68.45	38.21	106.66	4.25	59.35	24.73	84.08	3.38
Jan-19	56.94	35.81	92.75	3.78	57.26	33.35	90.61	3.61	63.07	25.69	88.76	3.55
Feb-19	52.69	33.04	85.73	3.50	51.52	36.22	87.74	3.47	62.59	27.57	90.16	3.62
Mar-19	56.71	45.23	101.94	4.11	53.06	27.23	80.29	3.17	62.96	27.53	90.49	3.62
Apr-19	58.39	42.24	100.63	4.06	54.48	48.24	102.72	4.06	61.91	28.49	90.40	3.60
May-19	54.39	15.33	69.72	2.81	56.05	14.02	70.07	2.80	60.13	25.44	85.57	3.40

¹ Cost information for Duke Energy Progress, LLC and Dominion Energy South Carolina has not been audited as part of this docket.

Office of Regulatory Staff
 Cost of Fuel Burned for Electric Generation
 Duke Energy Carolinas, LLC
 For Year Ending May 2019
 Docket No. 2019-3-E

<u>Month</u>	<u>Coal</u>	<u>Oil</u>	<u>Natural Gas</u>	<u>Nuclear</u>	<u>Total Burned Cost</u>
Jun-18	\$ 78,834,998	\$ 1,108,300	\$ 36,857,756	\$ 23,770,804	\$ 140,571,858
Jul-18	\$ 61,646,305	\$ 1,213,547	\$ 45,570,531	\$ 24,561,314	\$ 132,991,697
Aug-18	\$ 66,728,441	\$ 1,683,920	\$ 37,240,251	\$ 24,555,250	\$ 130,207,862
Sep-18	\$ 66,201,664	\$ 1,158,022	\$ 36,422,313	\$ 20,886,708	\$ 124,668,707
Oct-18	\$ 37,045,449	\$ 828,300	\$ 31,214,953	\$ 20,475,919	\$ 89,564,621
Nov-18	\$ 42,172,526	\$ 1,703,503	\$ 40,879,406	\$ 21,358,058	\$ 106,113,493
Dec-18	\$ 46,847,568	\$ 1,874,267	\$ 37,231,117	\$ 23,069,842	\$ 109,022,794
Jan-19	\$ 47,501,725	\$ 2,174,079	\$ 48,269,422	\$ 24,333,126	\$ 122,278,352
Feb-19	\$ 16,276,067	\$ 472,346	\$ 39,030,172	\$ 22,036,626	\$ 77,815,211
Mar-19	\$ 48,396,264	\$ 1,702,679	\$ 30,404,969	\$ 22,301,225	\$ 102,805,137
Apr-19	\$ 44,636,472	\$ 1,534,226	\$ 21,257,506	\$ 18,932,863	\$ 86,361,067
May-19	\$ 64,187,459	\$ 1,460,503	\$ 33,955,257	\$ 23,519,194	\$ 123,122,413
Total	\$ 620,474,938	\$ 16,913,692	\$ 438,333,653	\$ 269,800,929	\$ 1,345,523,212

Office of Regulatory Staff
 Cost of Fuel
 Duke Energy Carolinas, LLC
 For Year Ending May 2019
 Docket No. 2019-3-E

<u>Month</u>	<u>Cost of Fuel Burned</u>	<u>Fuel Cost of Purchased and Interchange Power</u>	<u>Fuel Cost Recovered from Power Sales</u>	<u>Solar Intergration Fees</u>	<u>Total Fuel Costs</u>
Jun-18	\$ 140,571,858	\$ 21,988,635	\$ (7,842,278)	\$ -	\$ 154,718,215
Jul-18	\$ 132,991,697	\$ 37,845,697	\$ (1,492,433)	\$ -	\$ 169,344,961
Aug-18	\$ 130,207,862	\$ 37,511,858	\$ (2,980,076)	\$ -	\$ 164,739,644
Sep-18	\$ 124,668,707	\$ 44,059,510	\$ (9,673,882)	\$ -	\$ 159,054,335
Oct-18	\$ 89,564,621	\$ 46,634,964	\$ (3,263,823)	\$ -	\$ 132,935,762
Nov-18	\$ 106,113,493	\$ 39,277,223	\$ (6,757,900)	\$ -	\$ 138,632,816
Dec-18	\$ 109,022,794	\$ 60,497,050	\$ (7,029,538)	\$ (758)	\$ 162,489,548
Jan-19	\$ 122,278,352	\$ 38,815,799	\$ (12,246,877)	\$ (4,697)	\$ 148,842,577
Feb-19	\$ 77,815,211	\$ 36,178,295	\$ (3,561,610)	\$ (602)	\$ 110,431,294
Mar-19	\$ 102,805,137	\$ 24,593,396	\$ (7,556,425)	\$ 3,087	\$ 119,845,195
Apr-19	\$ 86,361,067	\$ 28,891,378	\$ (6,552,356)	\$ (1,419)	\$ 108,698,670
May-19	\$ 123,122,413	\$ 15,993,240	\$ (7,197,807)	\$ (249)	\$ 131,917,597
Total	\$ 1,345,523,212	\$ 432,287,045	\$ (76,155,005)	\$ (4,638)	\$ 1,701,650,614

Office of Regulatory Staff
Details of the Computation of the (Over)/Under-Recovery of Base Fuel Costs
Duke Energy Carolinas, LLC
June 2018 - September 2019
Docket No. 2019-3-E

	Actual											
	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019				
Total Fuel Costs	\$ 154,718,215	\$ 169,344,961	\$ 164,739,644	\$ 159,054,335	\$ 132,935,762	\$ 138,632,816	\$ 162,489,548	\$ 148,842,577				
Avoided Fuel Benefit of SC NEM	\$ 307,812	\$ 313,612	\$ 323,047	\$ 330,116	\$ 332,039	\$ 336,077	\$ 338,332	\$ 345,919				
Adjusted System Fuel Costs	\$ 155,026,027	\$ 169,658,573	\$ 165,062,691	\$ 159,384,451	\$ 133,267,801	\$ 138,968,893	\$ 162,827,880	\$ 149,188,496				
Total System kWh Sales	7,999,801,237	8,477,178,071	8,257,882,938	9,497,758,228	6,334,828,962	6,670,820,955	7,490,426,895	7,560,242,873				
NEM Solar Generation kWh	9,516,148	9,695,409	9,987,053	10,205,632	10,227,605	10,343,935	10,412,429	10,645,948				
Adjusted System kWh Sales	8,009,317,385	8,486,873,480	8,267,869,991	9,507,963,860	6,345,056,567	6,681,164,890	7,500,839,324	7,570,888,821				
Fuel Costs per kWh Sales	\$ 0.019356	\$ 0.019991	\$ 0.019964	\$ 0.016763	\$ 0.021003	\$ 0.020800	\$ 0.021708	\$ 0.019706				
S.C. Retail kWh Sales	1,960,743,382	1,991,741,085	2,009,609,778	2,449,765,120	1,479,486,530	1,634,436,344	1,797,159,761	1,793,547,356				
NEM Solar Generation kWh	9,516,148	9,695,409	9,987,053	10,205,632	10,227,605	10,343,935	10,412,429	10,645,948				
Adjusted S.C. Retail kWh Sales	1,970,259,530	2,001,436,494	2,019,596,831	2,459,970,752	1,489,714,135	1,644,780,279	1,807,572,190	1,804,193,304				
S.C. Base Fuel Costs	\$ 38,135,772	\$ 40,010,125	\$ 40,319,948	\$ 41,237,124	\$ 31,289,071	\$ 34,211,593	\$ 39,238,696	\$ 35,552,614				
Avoided Fuel Benefit of S.C. NEM	\$ (307,812)	\$ (313,612)	\$ (323,047)	\$ (330,116)	\$ (332,039)	\$ (336,077)	\$ (338,332)	\$ (345,919)				
Adjusted S.C. Base Fuel Costs	\$ 37,827,960	\$ 39,696,513	\$ 39,996,901	\$ 40,907,008	\$ 30,957,032	\$ 33,875,516	\$ 38,900,364	\$ 35,206,695				
S.C. Retail Fuel Costs Collected	\$ 33,862,039	\$ 34,397,368	\$ 34,705,960	\$ 42,307,443	\$ 26,966,677	\$ 32,093,709	\$ 35,310,595	\$ 35,239,619				
Fuel Benefits in DERP NEM Incentive	\$ (149,779)	\$ (152,550)	\$ (157,066)	\$ (155,758)	\$ (151,335)	\$ (153,111)	\$ (144,085)	\$ (147,256)				
Adjusted S.C. Retail Costs Collected	\$ 33,712,260	\$ 34,244,818	\$ 34,548,894	\$ 42,151,685	\$ 26,815,342	\$ 31,940,598	\$ 35,166,510	\$ 35,092,363				
Deferred Fuel Entry- (Over)/Under-Recovery	\$ 4,115,700	\$ 5,451,695	\$ 5,448,007	\$ (1,244,677)	\$ 4,141,690	\$ 1,934,918	\$ 3,733,854	\$ 114,332				
Company Accounting Adjustments	(A) \$ (20,332)	\$ -	\$ -	\$ -	(B) \$ (1,252)	\$ -	\$ -	(C) \$ 29,135				
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				
Cumulative (Over)/Under-Recovery Prior Month	\$ 64,562,410	\$ 68,657,778	\$ 74,109,473	\$ 79,557,480	\$ 78,312,803	\$ 82,453,241	\$ 84,388,159	\$ 88,122,013				
Cumulative (Over)/Under-Recovery	\$ 68,657,778	\$ 74,109,473	\$ 79,557,480	\$ 78,312,803	\$ 82,453,241	\$ 84,388,159	\$ 88,122,013	\$ 88,265,480				

Office of Regulatory Staff
Details of the Computation of the (Over)/Under-Recovery of Base Fuel Costs
Duke Energy Carolinas, LLC
June 2018 - September 2019
Docket No. 2019-3-E

	Actual					Estimated			
	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019	
Total Fuel Costs	\$ 110,431,294	\$ 119,845,195	\$ 108,698,670	\$ 131,917,597	\$ 141,018,390	\$ 165,800,272	\$ 159,434,080	\$ 132,761,216	
Avoided Fuel Benefit of SC NEM	\$ 347,892	\$ 350,373	\$ 352,074	\$ 355,651	\$ 427,930	\$ 414,192	\$ 373,514	\$ 344,605	
Adjusted System Fuel Costs	\$ 110,779,186	\$ 120,195,568	\$ 109,050,744	\$ 132,273,248	\$ 141,446,320	\$ 166,214,464	\$ 159,807,594	\$ 133,105,821	
Total System kWh Sales	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,810	7,097,791,674	8,128,668,264	8,680,327,632	8,129,028,172	
NEM Solar Generation kWh	10,706,640	10,783,000	10,835,324	10,945,408	13,167,066	12,744,382	11,492,743	10,603,218	
Adjusted System kWh Sales	7,430,788,664	6,521,808,145	6,367,436,322	6,726,545,218	7,110,958,740	8,141,412,646	8,691,820,375	8,139,631,390	
Fuel Costs per kWh Sales	\$ 0.014908	\$ 0.018430	\$ 0.017126	\$ 0.019664	\$ 0.019891	\$ 0.020416	\$ 0.018386	\$ 0.016353	
S.C. Retail kWh Sales	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,212	1,742,100,557	1,968,812,531	2,125,817,048	2,029,237,150	
NEM Solar Generation kWh	10,706,640	10,783,000	10,835,324	10,945,408	13,167,066	12,744,382	11,492,743	10,603,218	
Adjusted S.C. Retail kWh Sales	1,816,482,977	1,574,347,949	1,584,730,992	1,678,909,620	1,755,267,623	1,981,556,913	2,137,309,791	2,039,840,368	
S.C. Base Fuel Costs	\$ 27,080,370	\$ 29,014,905	\$ 27,140,608	\$ 33,014,693	\$ 34,914,581	\$ 40,455,315	\$ 39,296,524	\$ 33,357,116	
Avoided Fuel Benefit of S.C. NEM	\$ (347,892)	\$ (350,373)	\$ (352,074)	\$ (355,651)	\$ (427,930)	\$ (414,192)	\$ (373,514)	\$ (344,605)	
Adjusted S.C. Base Fuel Costs	\$ 26,732,478	\$ 28,664,532	\$ 26,788,534	\$ 32,659,042	\$ 34,486,651	\$ 40,041,123	\$ 38,923,010	\$ 33,012,511	
S.C. Retail Fuel Costs Collected	\$ 35,479,893	\$ 30,720,924	\$ 30,923,902	\$ 32,772,161	\$ 34,228,792	\$ 38,683,229	\$ 41,768,053	\$ 39,870,452	
Fuel Benefits in DERP NEM Incentive	\$ (148,085)	\$ (149,143)	\$ (149,859)	\$ (151,381)	\$ (182,731)	\$ (176,882)	\$ (159,503)	\$ (147,147)	
Adjusted S.C. Retail Costs Collected	\$ 35,331,808	\$ 30,571,781	\$ 30,774,043	\$ 32,620,780	\$ 34,046,061	\$ 38,506,347	\$ 41,608,550	\$ 39,723,305	
Deferred Fuel Entry- (Over)/Under-Recovery	\$ (8,599,330)	\$ (1,907,249)	\$ (3,985,509)	\$ 38,262	\$ 440,590	\$ 1,534,776	\$ (2,685,540)	\$ (6,710,794)	
Company Accounting Adjustments	(D) \$ 13,371,611	\$ -	\$ -	\$ (966,037)	\$ -	\$ -	\$ -	\$ (F) \$ 544,982	
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Cumulative (Over)/Under-Recovery Prior Month	\$ 88,265,480	\$ 93,037,761	\$ 91,130,512	\$ 87,145,003	\$ 86,217,228	\$ 86,657,818	\$ 88,192,594	\$ 85,507,054	
Cumulative (Over)/Under-Recovery	\$ 93,037,761	\$ 91,130,512	\$ 87,145,003	\$ 86,217,228	\$ 86,657,818	\$ 88,192,594	\$ 85,507,054	\$ 79,341,242	

	May 2019	September 2019
Cumulative (Over)/Under-Recovery of Base Fuel Costs (Audit Exhibit ADB-5)	\$ 86,217,228	\$ 79,341,242
Cumulative (Over)/Under-Recovery of Environmental Costs (Audit Exhibit ADB-7)	\$ (965,535)	\$ 346,746
Cumulative (Over)/Under-Recovery of Capacity Costs (Audit Exhibit ADB-8)	\$ (5,379,540)	\$ (7,457,040)
Cumulative (Over)/Under-Recovery of DERP Incremental Costs (Audit Exhibit ADB-9)	\$ (474,258)	\$ (1,462,326)
Cumulative (Over)/Under-Recovery of DERP A voided Costs (Audit Exhibit ADB-10)	\$ (1,472)	\$ (18,582)
Net Cumulative (Over)/Under-Recovery Balance	\$ 79,396,423	\$ 70,750,040

Office of Regulatory Staff
 Total Environmental Costs
 Duke Energy Carolinas, LLC
 For Year Ending May 2019
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<u>Month</u>	<u>Magnesium Hydroxide, Calcium Carbonate, and Other Sorbents</u>		<u>Emission Allowances</u>		<u>Ammonia and Urea</u>		<u>Lime/Limestone</u>		<u>MerControl 8034 Plus</u>		<u>Total Environmental Costs</u>	
Jun-18	\$ 377,977	10.25%	\$ 365	0.01%	\$ 777,603	21.09%	\$ 2,530,992	68.65%	\$ -	0.00%	\$ 3,686,937	
Jul-18	\$ 191,321	6.33%	\$ 484	0.02%	\$ 720,372	23.84%	\$ 2,108,932	69.81%	\$ -	0.00%	\$ 3,021,109	
Aug-18	\$ 268,895	10.79%	\$ 367	0.01%	\$ 209,293	8.40%	\$ 2,013,724	80.80%	\$ -	0.00%	\$ 2,492,279	
Sep-18	\$ 195,117	8.27%	\$ 432	0.02%	\$ 297,412	12.62%	\$ 1,864,982	79.09%	\$ -	0.00%	\$ 2,357,943	
Oct-18	\$ 127,948	9.02%	\$ 413	0.03%	\$ 273,194	19.26%	\$ 951,881	67.12%	\$ 64,788	4.57%	\$ 1,418,224	
Nov-18	\$ 238,808	14.45%	\$ 195	0.01%	\$ 448,222	27.11%	\$ 961,632	58.17%	\$ 4,373	0.26%	\$ 1,653,230	
Dec-18	\$ 161,545	10.43%	\$ 305	0.02%	\$ 42,545	2.75%	\$ 1,345,043	86.80%	\$ -	0.00%	\$ 1,549,438	
Jan-19	\$ 97,315	5.43%	\$ 258	0.01%	\$ 424,826	23.70%	\$ 1,269,907	70.85%	\$ -	0.00%	\$ 1,792,306	
Feb-19	\$ 94,475	12.07%	\$ 230	0.03%	\$ 128,428	16.40%	\$ 559,817	71.50%	\$ -	0.00%	\$ 782,950	
Mar-19	\$ 98,109	6.28%	\$ -	0.00%	\$ 147,075	9.41%	\$ 1,245,740	79.73%	\$ 71,527	4.58%	\$ 1,562,451	
Apr-19	\$ 138,236	9.42%	\$ 191	0.01%	\$ 183,407	12.49%	\$ 1,146,302	78.08%	\$ -	0.00%	\$ 1,468,136	
May-19	\$ 173,669	8.69%	\$ (20)	0.00%	\$ 247,965	12.40%	\$ 1,577,833	78.91%	\$ -	0.00%	\$ 1,999,447	
Totals	\$2,163,415	9.10%	\$ 3,220	0.01%	\$ 3,900,342	16.40%	\$ 17,576,785	73.90%	\$ 140,688	0.59%	\$ 23,784,450	

Office of Regulatory Staff
Details of the Computation of the (Over)/Under-Recovery of Environmental Costs
Duke Energy Carolinas, LLC
June 2018 - September 2019
Docket No. 2019-3-E

	Actual											
	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	December 2018	November 2018	October 2018	September 2018
Total Environmental Costs	\$ 3,686,937	\$ 3,021,109	\$ 2,492,279	\$ 2,357,943	\$ 1,418,224	\$ 1,653,230	\$ 1,549,438	\$ 1,792,306	\$ 1,549,438	\$ 1,653,230	\$ 1,418,224	\$ 2,357,943
Environmental Costs Recovered Through Off-System Sales	\$ (26,296)	\$ (1,952)	\$ (2,624)	\$ (9,866)	\$ (3,627)	\$ (39,063)	\$ (9,758)	\$ (57,154)	\$ (9,758)	\$ (39,063)	\$ (3,627)	\$ (9,866)
Net Environmental Costs	\$ 3,660,641	\$ 3,019,157	\$ 2,489,655	\$ 2,348,077	\$ 1,414,597	\$ 1,614,167	\$ 1,539,680	\$ 1,735,152	\$ 1,539,680	\$ 1,614,167	\$ 1,414,597	\$ 2,348,077
S.C. Retail kWh Sales	1,960,743,382	1,991,741,085	2,009,609,778	2,449,765,120	1,479,486,530	1,634,436,344	1,797,159,761	1,793,547,356	1,797,159,761	1,634,436,344	1,479,486,530	2,449,765,120
Total System kWh Sales Excluding Off-System Sales	7,999,801,237	8,477,178,071	8,257,882,938	9,497,758,228	6,334,828,962	6,670,820,955	7,490,426,895	7,560,242,873	7,490,426,895	6,670,820,955	6,334,828,962	9,497,758,228
S.C Allocation Factor	24.51%	23.50%	24.34%	25.79%	23.35%	24.50%	23.99%	23.72%	23.99%	24.50%	23.35%	25.79%
S.C. Retail Basis of Total Environmental Costs	\$ 897,219	\$ 709,361	\$ 605,874	\$ 605,642	\$ 330,376	\$ 395,492	\$ 369,412	\$ 411,637	\$ 369,412	\$ 395,492	\$ 330,376	\$ 605,642
Amounts Billed to Retail Customers (Over)/Under-Recovery	\$ 641,335	\$ 657,779	\$ 656,578	\$ 788,695	\$ 400,973	\$ 285,613	\$ 311,797	\$ 311,399	\$ 311,797	\$ 285,613	\$ 400,973	\$ 788,695
Company Accounting Adjustments	\$ 255,884	\$ 51,582	\$ (50,704)	\$ (183,053)	\$ (70,597)	\$ 109,879	\$ 57,615	\$ 100,238	\$ 57,615	\$ 109,879	\$ (70,597)	\$ (183,053)
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cumulative (Over)/Under-Recovery-Prior Month	\$ (1,461,873)	\$ (1,205,989)	\$ (1,154,407)	\$ (1,205,111)	\$ (1,388,164)	\$ (1,458,761)	\$ (1,348,882)	\$ (1,291,267)	\$ (1,348,882)	\$ (1,458,761)	\$ (1,388,164)	\$ (1,205,111)
Cumulative (Over)/Under-Recovery	\$ (1,205,989)	\$ (1,154,407)	\$ (1,205,111)	\$ (1,388,164)	\$ (1,458,761)	\$ (1,348,882)	\$ (1,291,267)	\$ (1,191,029)	\$ (1,348,882)	\$ (1,458,761)	\$ (1,388,164)	\$ (1,205,111)

Office of Regulatory Staff
Details of the Computation of the (Over)/Under-Recovery of Environmental Costs
Duke Energy Carolinas, LLC
June 2018 - September 2019
Docket No. 2019-3-E

	Actual					Estimated		
	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019
Total Environmental Costs	\$ 782,950	\$ 1,562,451	\$ 1,468,136	\$ 1,999,447	\$ 2,279,328	\$ 3,177,248	\$ 3,131,075	\$ 2,379,370
Environmental Costs Recovered Through Off-System Sales	\$ 4,755	\$ (60,062)	\$ (43,640)	\$ (105,980)	\$ (598)	\$ (12,003)	\$ (7,155)	\$ (3,097)
Net Environmental Costs	\$ 787,705	\$ 1,502,389	\$ 1,424,496	\$ 1,893,467	\$ 2,278,730	\$ 3,165,245	\$ 3,123,920	\$ 2,376,273
S.C. Retail kWh Sales	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,212	1,742,100,557	1,968,812,531	2,125,817,048	2,029,237,150
Total System kWh Sales Excluding Off-System Sales	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,810	7,097,791,674	8,128,668,264	8,680,327,632	8,129,028,172
S.C Allocation Factor	24.34%	24.01%	24.76%	24.84%	24.54%	24.22%	24.49%	24.96%
S.C. Retail Basis of Total Environmental Costs	\$ 191,699	\$ 360,785	\$ 352,705	\$ 470,283	\$ 559,297	\$ 766,641	\$ 765,050	\$ 593,185
Amounts Billed to Retail Customers (Over)/Under-Recovery	\$ 313,306	\$ 271,883	\$ 273,933	\$ 290,856	\$ 304,277	\$ 343,490	\$ 370,419	\$ 353,706
Company Accounting Adjustments	\$ (121,607)	\$ 88,902	\$ 78,772	\$ 179,427	\$ 255,020	\$ 423,151	\$ 394,631	\$ 239,479
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cumulative (Over)/Under-Recovery- Prior Month	\$ (1,191,029)	\$ (1,312,636)	\$ (1,223,734)	\$ (1,144,962)	\$ (965,535)	\$ (710,515)	\$ (287,364)	\$ 107,267
Cumulative (Over)/Under-Recovery	\$ (1,312,636)	\$ (1,223,734)	\$ (1,144,962)	\$ (965,535)	\$ (710,515)	\$ (287,364)	\$ 107,267	\$ 346,746

Office of Regulatory Staff
 Details of the Computation of the (Over)/Under-Recovery of Capacity Costs
 Duke Energy Carolinas, LLC
 June 2018 - September 2019
 Docket No. 2019-3-E

	Actual										
	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019
PURPA Purchased Power Capacity Costs	\$ 2,213,593	\$ 6,677,010	\$ 6,553,796	\$ 4,333,985	\$ 2,785,778	\$ 1,113,419	\$ 965,775	\$ 1,276,117	\$ 1,480,301	\$ 1,190,305	\$ 1,342,186
Natural Gas Capacity Costs	\$ 3,583,324	\$ 3,268,622	\$ 3,011,807	\$ 2,804,160	\$ 2,124,882	\$ 3,766,561	\$ 2,647,691	\$ 3,335,161	\$ 2,703,586	\$ 1,815,402	\$ 2,732,560
Total Costs for the current month	\$ 5,796,917	\$ 9,945,632	\$ 9,565,603	\$ 7,138,145	\$ 4,910,660	\$ 4,879,980	\$ 3,613,466	\$ 4,611,278	\$ 4,183,887	\$ 3,005,707	\$ 4,074,746
S.C. Retail kWh Sales	1,960,743,382	1,991,741,085	2,009,609,778	2,449,765,120	1,479,486,530	1,634,436,344	1,797,159,761	1,793,547,356	1,805,776,337	1,563,564,949	1,573,895,668
Total System kWh Sales Excluding Off-System Sales	7,999,801,237	8,477,178,071	8,257,882,938	9,497,758,228	6,334,828,962	6,670,820,955	7,490,426,895	7,560,242,873	7,420,082,024	6,511,025,145	6,356,600,998
S.C. Allocation Factor	24.51%	23.50%	24.34%	25.79%	23.35%	24.50%	23.99%	23.72%	24.34%	24.01%	24.76%
S.C. Share of Capacity Costs	\$ 1,420,819	\$ 2,336,759	\$ 2,327,852	\$ 1,841,148	\$ 1,146,875	\$ 1,195,657	\$ 866,970	\$ 1,093,952	\$ 1,018,205	\$ 721,794	\$ 1,008,908
Amount Billed to Retail Customers	\$ 1,741,660	\$ 1,810,972	\$ 1,789,254	\$ 2,120,737	\$ 1,469,191	\$ 1,742,987	\$ 1,968,102	\$ 1,978,277	\$ 1,969,353	\$ 1,692,645	\$ 1,679,214
(Over)/Under-Recovery	\$ (320,841)	\$ 525,787	\$ 538,598	\$ (279,589)	\$ (322,316)	\$ (547,330)	\$ (1,101,132)	\$ (884,325)	\$ (951,148)	\$ (970,851)	\$ (670,306)
Company Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ 1,249	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cumulative (Over)/Under-Recovery - Prior Month	\$ (910,630)	\$ (1,231,471)	\$ (705,684)	\$ (167,086)	\$ (446,675)	\$ (767,742)	\$ (1,315,072)	\$ (2,416,204)	\$ (4,251,677)	\$ (4,251,677)	\$ (5,222,528)
Cumulative (Over)/Under-Recovery	\$ (1,231,471)	\$ (705,684)	\$ (167,086)	\$ (446,675)	\$ (767,742)	\$ (1,315,072)	\$ (2,416,204)	\$ (3,300,529)	\$ (4,251,677)	\$ (5,222,528)	\$ (5,892,834)

	Actual						Estimated				
	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
PURPA Purchased Power Capacity Costs	\$ 1,480,301	\$ 1,190,305	\$ 1,342,186	\$ 1,317,667	\$ 2,628,938	\$ 3,620,857	\$ 3,550,928	\$ 2,060,772	\$ 1,018,205	\$ 721,794	\$ 1,008,908
Natural Gas Capacity Costs	\$ 2,703,586	\$ 1,815,402	\$ 2,732,560	\$ 4,314,427	\$ 3,762,225	\$ 3,715,077	\$ 3,719,537	\$ 3,368,219	\$ 1,969,353	\$ 1,692,645	\$ 1,679,214
Total Costs for the current month	\$ 4,183,887	\$ 3,005,707	\$ 4,074,746	\$ 5,632,094	\$ 6,391,163	\$ 7,335,934	\$ 7,270,465	\$ 5,428,991	\$ 4,183,887	\$ 3,005,707	\$ 4,074,746
S.C. Retail kWh Sales	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,212	1,742,100,557	1,968,812,531	2,125,817,048	2,029,237,150	1,805,776,337	1,563,564,949	1,573,895,668
Total System kWh Sales Excluding Off-System Sales	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,810	7,097,791,674	8,128,668,264	8,680,327,632	8,129,028,172	7,420,082,024	6,511,025,145	6,356,600,998
S.C. Allocation Factor	24.34%	24.01%	24.76%	24.84%	24.54%	24.22%	24.49%	24.96%	24.34%	24.01%	24.76%
S.C. Share of Capacity Costs	\$ 1,018,205	\$ 721,794	\$ 1,008,908	\$ 1,398,852	\$ 1,568,664	\$ 1,776,808	\$ 1,780,541	\$ 1,355,231	\$ 1,018,205	\$ 721,794	\$ 1,008,908
Amount Billed to Retail Customers	\$ 1,969,353	\$ 1,692,645	\$ 1,679,214	\$ 1,788,363	\$ 1,880,549	\$ 2,148,453	\$ 2,322,336	\$ 2,207,406	\$ 1,969,353	\$ 1,692,645	\$ 1,679,214
(Over)/Under-Recovery	\$ (951,148)	\$ (970,851)	\$ (670,306)	\$ (389,511)	\$ (311,885)	\$ (371,645)	\$ (541,795)	\$ (852,175)	\$ (951,148)	\$ (970,851)	\$ (670,306)
Company Accounting Adjustments	\$ -	\$ -	\$ -	\$ (H) 902,805	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cumulative (Over)/Under-Recovery - Prior Month	\$ (3,300,529)	\$ (4,251,677)	\$ (5,222,528)	\$ (5,892,834)	\$ (5,379,540)	\$ (5,691,425)	\$ (6,063,070)	\$ (6,604,865)	\$ (4,251,677)	\$ (4,251,677)	\$ (5,222,528)
Cumulative (Over)/Under-Recovery	\$ (4,251,677)	\$ (5,222,528)	\$ (5,892,834)	\$ (5,379,540)	\$ (5,691,425)	\$ (6,063,070)	\$ (6,604,865)	\$ (7,457,040)	\$ (4,251,677)	\$ (4,251,677)	\$ (5,222,528)

Office of Regulatory Staff
 Details of the Computation of the (Over)/Under-Recovery of Distributed Energy Resource Program Incremental Costs
 Duke Energy Carolinas, LLC
 June 2018 - September 2019
 Docket No. 2019-3-E

	Actual											
	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019
Purchased Power Agreements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NEM Incentive	\$ 264,771	\$ 272,870	\$ 285,145	\$ 292,579	\$ 315,749	\$ 322,425	\$ 326,530	\$ 334,168	\$ 342,807	\$ 351,446	\$ 360,085	\$ 368,724
Solar Rebate Program	\$ 228,110	\$ 228,484	\$ 238,288	\$ 244,772	\$ 244,788	\$ 244,856	\$ 244,839	\$ 250,339	\$ 250,839	\$ 251,339	\$ 251,839	\$ 252,339
Shared Solar Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Carrying Costs on Deferred Amounts	\$ 223,833	\$ 222,904	\$ 226,966	\$ 233,911	\$ 233,473	\$ 232,088	\$ 230,685	\$ 232,109	\$ 231,671	\$ 230,233	\$ 228,798	\$ 227,360
NEM Avoided Capacity	\$ 33,811	\$ 34,448	\$ 35,483	\$ 36,153	\$ 36,380	\$ 36,825	\$ 37,070	\$ 35,226	\$ 35,471	\$ 35,716	\$ 35,961	\$ 36,206
NEM Meter Costs	\$ 42,882	\$ 44,087	\$ 45,829	\$ 46,932	\$ 54,006	\$ 55,712	\$ 56,211	\$ 57,058	\$ 57,905	\$ 58,752	\$ 59,599	\$ 60,446
General and Administrative Expenses	\$ 31,505	\$ 39,400	\$ 34,024	\$ 24,586	\$ 21,397	\$ 23,957	\$ 29,306	\$ (29,218)	\$ (29,130)	\$ (29,042)	\$ (28,954)	\$ (28,866)
Interest on under-collection due to cap	\$ -	\$ -	\$ -	\$ -	\$ 471	\$ 448	\$ 448	\$ 174	\$ 149	\$ 124	\$ 99	\$ 74
Total Incremental Costs	\$ 824,912	\$ 842,193	\$ 865,735	\$ 878,933	\$ 906,264	\$ 916,311	\$ 925,089	\$ 879,856	\$ 829,707	\$ 779,558	\$ 729,409	\$ 679,260
Revenue Collected	\$ 308,530	\$ 307,025	\$ 307,543	\$ 310,532	\$ 610,097	\$ 915,558	\$ 912,704	\$ 919,094	\$ 926,389	\$ 933,084	\$ 939,779	\$ 946,474
(Over)/Under-Recovery	\$ 516,382	\$ 535,168	\$ 558,192	\$ 568,401	\$ 296,167	\$ 753	\$ 12,385	\$ (39,238)	\$ (96,682)	\$ (193,525)	\$ (294,370)	\$ (397,214)
Company Accounting Adjustments	\$ -	\$ -	\$ -	\$ (I) (49,569)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cumulative (Over)/Under-Recovery - Prior Month	\$ (966,265)	\$ (449,883)	\$ 85,285	\$ 643,477	\$ 1,162,309	\$ 1,458,476	\$ 1,459,229	\$ 1,471,614	\$ 1,472,363	\$ 1,473,112	\$ 1,473,860	\$ 1,474,608
Cumulative (Over)/Under-Recovery	\$ (449,883)	\$ 85,285	\$ 643,477	\$ 1,162,309	\$ 1,458,476	\$ 1,459,229	\$ 1,471,614	\$ 1,472,363	\$ 1,473,112	\$ 1,473,860	\$ 1,474,608	\$ 1,475,356

	Actual						Estimated					
	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019	
Purchased Power Agreements	\$ -	\$ 10,980	\$ 2,938	\$ 1,372	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
NEM Incentive	\$ 336,848	\$ 339,100	\$ 341,751	\$ 345,950	\$ 483,289	\$ 466,167	\$ 421,063	\$ 389,373	\$ 356,469	\$ 323,565	\$ 290,661	
Solar Rebate Program	\$ 250,339	\$ 253,866	\$ (1,459,065)	\$ 9,191	\$ 9,191	\$ 12,820	\$ 12,820	\$ 12,820	\$ 12,820	\$ 12,820	\$ 12,820	
Shared Solar Program	\$ -	\$ -	\$ 6,215	\$ 21,739	\$ 5,023	\$ 5,023	\$ 5,023	\$ 5,023	\$ 5,023	\$ 5,023	\$ 5,023	
Carrying Costs on Deferred Amounts	\$ 233,573	\$ 233,964	\$ 234,335	\$ 232,869	\$ 8,930	\$ 10,684	\$ 12,418	\$ 12,347	\$ 12,276	\$ 12,205	\$ 12,134	
NEM Avoided Capacity	\$ 35,427	\$ 35,680	\$ 35,853	\$ 36,218	\$ 48,135	\$ 49,327	\$ 50,179	\$ 51,032	\$ 51,885	\$ 52,738	\$ 53,591	
NEM Meter Costs	\$ 57,481	\$ 57,883	\$ 58,264	\$ 58,906	\$ 62,647	\$ 63,587	\$ 64,512	\$ 65,438	\$ 66,363	\$ 67,288	\$ 68,213	
General and Administrative Expenses	\$ (86,863)	\$ 7,916	\$ 44,406	\$ 27,894	\$ 79,789	\$ 79,789	\$ 79,789	\$ 79,789	\$ 79,789	\$ 79,789	\$ 79,789	
Interest on under-collection due to cap	\$ 140	\$ 398	\$ -	\$ 76	\$ 30	\$ 26	\$ 5	\$ -	\$ -	\$ -	\$ -	
Total Incremental Costs	\$ 826,945	\$ 939,787	\$ (735,303)	\$ 734,215	\$ 697,034	\$ 687,423	\$ 645,809	\$ 615,822	\$ 585,837	\$ 555,846	\$ 525,855	
Revenue Collected	\$ 914,455	\$ 917,852	\$ 917,848	\$ 921,942	\$ 907,141	\$ 907,645	\$ 908,167	\$ 908,711	\$ 909,255	\$ 909,799	\$ 910,343	
(Over)/Under-Recovery	\$ (87,510)	\$ 21,935	\$ (1,653,151)	\$ (187,727)	\$ (210,107)	\$ (220,222)	\$ (262,358)	\$ (292,889)	\$ (323,420)	\$ (353,951)	\$ (384,482)	
Company Accounting Adjustments	\$ -	\$ -	\$ 10 (K)	\$ (191)	\$ -	\$ (L) (2,492)	\$ -	\$ -	\$ -	\$ -	\$ -	
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Cumulative (Over)/Under-Recovery - Prior Month	\$ 1,432,376	\$ 1,344,866	\$ 1,366,801	\$ (286,340)	\$ (474,258)	\$ (684,365)	\$ (907,079)	\$ (1,169,437)	\$ (1,444,506)	\$ (1,718,577)	\$ (1,987,718)	
Cumulative (Over)/Under-Recovery	\$ 1,344,866	\$ 1,366,801	\$ (286,340)	\$ (474,258)	\$ (684,365)	\$ (907,079)	\$ (1,169,437)	\$ (1,462,326)	\$ (1,718,577)	\$ (1,987,718)	\$ (2,267,869)	

* NEM - Net Energy Metering

Office of Regulatory Staff
 Details of the Computation of the (Over)/Under-Recovery of Distributed Energy Resource Program Avoided Costs
 Duke Energy Carolinas, LLC
 June 2018 - September 2019
 Docket No. 2019-3-E

	Actual											
	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018	January 2019				
Purchase Power Agreements	\$ 284	\$ 309	\$ 519	\$ 285	\$ 389	\$ 176	\$ 149	\$ 134				
Shared Solar Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				
Total Avoided Costs	\$ 284	\$ 309	\$ 519	\$ 285	\$ 389	\$ 176	\$ 149	\$ 134				
S.C. Retail kWh Sales	1,960,743,382	1,991,741,085	2,009,609,778	2,449,765,120	1,479,486,530	1,634,436,344	1,797,159,761	1,793,547,356				
Total System kWh Sales Excluding Off-System Sales	7,999,801,237	8,477,178,071	8,257,882,938	9,497,758,228	6,334,828,962	6,670,820,955	7,490,426,895	7,560,242,873				
S.C. Allocation Factor	24.51%	23.50%	24.34%	25.79%	23.35%	24.50%	23.99%	23.72%				
S.C. Share of Avoided Costs	\$ 70	\$ 73	\$ 126	\$ 74	\$ 91	\$ 43	\$ 36	\$ 32				
Amount Billed to Retail Customers (Over)/Under-Recovery	\$ (10,982)	\$ (12,299)	\$ (11,416)	\$ (12,347)	\$ (2,541)	\$ 7,756	\$ 8,891	\$ 8,944				
Company Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				
Cumulative (Over)/Under-Recovery - Prior Month	\$ (24,303)	\$ (13,251)	\$ (879)	\$ 10,663	\$ 23,084	\$ 25,716	\$ 18,003	\$ 9,148				
Cumulative (Over)/Under-Recovery	\$ (13,251)	\$ (879)	\$ 10,663	\$ 23,084	\$ 25,716	\$ 18,003	\$ 9,148	\$ 236				

	Actual						Estimated					
	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019				
Purchase Power Agreements	\$ 18,720	\$ 36,553	\$ 23,863	\$ 3,960	\$ 396	\$ 393	\$ 364	\$ 340				
Shared Solar Program	\$ -	\$ -	\$ 15,982	\$ 24,918	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423				
Total Avoided Costs	\$ 18,720	\$ 36,553	\$ 39,845	\$ 28,878	\$ 21,819	\$ 21,816	\$ 21,787	\$ 21,763				
S.C. Retail kWh Sales	1,805,776,337	1,563,564,949	1,573,895,668	1,667,964,212	1,742,100,557	1,968,812,531	2,125,817,048	2,029,237,150				
Total System kWh Sales Excluding Off-System Sales	7,420,082,024	6,511,025,145	6,356,600,998	6,715,599,810	7,097,791,674	8,128,668,264	8,680,327,632	8,129,028,172				
S.C. Allocation Factor	24.34%	24.01%	24.76%	24.84%	24.54%	24.22%	24.49%	24.96%				
S.C. Share of Avoided Costs	\$ 4,556	\$ 8,778	\$ 9,866	\$ 7,172	\$ 5,355	\$ 5,284	\$ 5,336	\$ 5,433				
Amount Billed to Retail Customers (Over)/Under-Recovery	\$ 8,890	\$ 7,622	\$ 7,539	\$ 8,029	\$ 8,445	\$ 9,672	\$ 10,464	\$ 9,937				
Company Accounting Adjustments	\$ (4,334)	\$ 1,156	\$ 2,327	\$ (857)	\$ (3,090)	\$ (4,388)	\$ (5,128)	\$ (4,504)				
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				
Cumulative (Over)/Under-Recovery - Prior Month	\$ 236	\$ (4,098)	\$ (2,942)	\$ (615)	\$ (1,472)	\$ (4,562)	\$ (8,950)	\$ (14,078)				
Cumulative (Over)/Under-Recovery	\$ (4,098)	\$ (2,942)	\$ (615)	\$ (1,472)	\$ (4,562)	\$ (8,950)	\$ (14,078)	\$ (18,582)				